Math 1131Q

Section 704 – Fall 2026

Calculus I

Course Information

Instructor: Ambar Sengupta

Class: Tuesday and Thursday, 12:30–2:10 PM

Email: Please email through HuskyCT.

Teaching Assistant: Yukta Lodha.

What Calculus is About

Whether you plan to be charting the paths of rockets for trips to Mars or designing neural nets for AI, calculus will be the fundamental mathematical tool you will need.

The two foundational concepts in calculus are derivatives and integrals. The derivative is a measure of how fast something is changing, and the integral is a way of putting together pieces to recover a whole.

Geometrically, some of the core ideas are curves, tangents, areas, and volumes. Quantitative descriptions use functions such as polynomials, trigonometric functions, and exponentials, and we will have to be very comfortable working with these.

Important Note: This section will proceed at a pace and ordering of topics that is likely to be quite different from other sections.

The Hartford Campus also offers tutoring services:

https://qcenter.hartford.uconn.edu/

Course material

You can study for this course using the online resource:
https://assets.openstax.org/oscms-prodcms/media/documents/calculus-volume-1_-_WEB.pdf

Background Needed

The essential prerequisite is algebra. You should be comfortable with expressions such as

$$(x^2 + 4x + 3)^2 - (5x - y^2).$$

If you know how to perform such algebraic manipulations but are not fully comfortable with them, additional practice is strongly recommended before the course gets underway.

Assessments

There will be regular assignments and quizzes. Late submissions will not receive full credit. The lowest few quiz or homework scores will be dropped. No make-up quizzes will be offered.

Grading

The course grade will be based on performance in quizzes, assignments, and examinations. There will be **no final examination**.

The following **tentative** assessment schedule is planned; updates will be announced through HuskyCT as needed.

2lightbluewhite

Assessment	Date	Weight
Assignments	Frequent	40%
Exam 1	Thu. Oct. 1, 2026	15%
Exam 2	Thu. Oct. 22, 2026	15%
Exam 3	Thu. Nov. 12, 2026	15%
Exam 4	Thu. Dec. 3, 2026	15%

Please check HuskyCT for letter grades.

Student Health and Wellness (SHaW)

I encourage you to seek support if personal, physical, or emotional challenges affect your academic performance or well-being.

Resources are available through:

https://studenthealth.uconn.edu

Academic Integrity

Please consult:

https://community.uconn.edu/the-student-code/the-student-code-appendix-a/

Make-Up Policy

If illness or other circumstances require you to miss an exam, please contact the instructor within a day to arrange a make-up.

Students traveling on behalf of the university should provide appropriate documentation from their advisor or supervising office.

Extra Credit

Extra credit is not given.

General UConn Statements

Please see the separately posted document containing official UConn policies, resources, and student support information.